

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,922,628 B2  
DATED : July 26, 2005  
INVENTOR(S) : Guoming G. Zhu et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 1,

Line 54, "diagnostic" should be -- diagnostics --.

Column 2,

Line 4, after "invention" insert -- , --.

Column 3,

Line 8, "access" should be -- assess --.

Line 53, "circumstance" should be -- circumstances --.

Column 7,

Line 63, "INTC<sub>12</sub>" should be -- INTC<sub>12</sub> --.

Column 8,

Line 8, "INTC<sub>12</sub>" should be -- INTC<sub>12</sub> --.

Line 12, "INT<sub>12</sub> =  $\int \text{Ion}(t) dt \times \text{PWM}_{\text{DC}} = \int \text{Ion}(\theta) d\theta \times \text{PWM}_{\text{DC}} / (6 \times \text{RPM})$ " should be -- INT<sub>12</sub> =  $\int \text{Ion}(t) dt \times \text{PWM}_{\text{DC}} = \int \text{Ion}(\theta) d\theta \times \text{PWM}_{\text{DC}} / (6 \times \text{RPM})$  --.

Line 18, "INTC<sub>12</sub> =  $\int \text{Ion}(\theta) d\theta = 6 \times \text{RPM} \times \text{INT}_{12} / \text{PWM}_{\text{DC}}$ " should be -- INTC<sub>12</sub> =  $\int \text{Ion}(\theta) d\theta = 6 \times \text{RPM} \times \text{INT}_{12} / \text{PWM}_{\text{DC}}$  --.

Line 20, "INTC<sub>12</sub>" should be -- INTC<sub>12</sub> --.

Column 11,

Line 47, "TH<sub>PC</sub>" should be -- TH<sub>FC</sub> --.

Column 12,

Line 1, after "assembly" insert -- threshold TH<sub>FC</sub>, the diagnostic subroutine determines that the ignition coil/ion-sensing assembly --.

Column 15,

Line 23, "PFT" should be -- PFI --.

Line 32, "band" should be -- bank --.

Line 50, "is" should be -- if --.

Column 16,

Line 28, "change" should be -- changes --.

Column 17,

Line 42, "soil" should be -- coil --.

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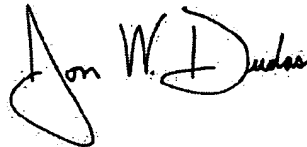
Page 2 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 20,  
Line 14, “;” should be -- : --.

Signed and Sealed this

Eleventh Day of October, 2005

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a distinct "D" for "Dudas".

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*